

Material Safety Data Sheet

Section 1. C	Chemical Product and Company Identification		
Common Name	Varathane® Liquid Plastic Exterior Wood Finish®	Code	Liquid Plastic Exterior Wood Finish® Products
Supplier	The Flecto Company, Inc. 1000 45th Street Oakland, California 94608	MSDS# TSCA Inventory	June 1998 All raw materials are listed.
Synonym	92-03, 93-03 VOC <450 g/l (3.8 lbs/gal)	Validation Date Print Date	6/16/98 7/24/98
Trade name Material Uses	Varathane® Liquid Plastic Exterior Wood Finish® Use on boats, patio furniture, exteroir doors, etc.	Emergency 800	ergency phone: -255-3924 Information Call:
Manufacturer	The Flecto Company, Inc. 1000 45th Street Oakland, California 94608		635-3286

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Mineral Spirits	064742478	<27.0	TWA: 100 (ppm)	Not available.
Light aromatic solvent naphtha (petroleum)	064742956	<10.0	TWA: 50 (ppm) from OSHA	Not available.
Xylene	001330207	<1.0	TWA: 100 CEIL: 150 (ppm)	ORAL (LD50): Acute: 4300
			TWA: 435 CEIL: 655 (mg/m³)	mg/kg [Rat]. 6100 mg/kg [Rat].
Primary amyl alcohol	000071410	<5.0	Not available.	Not available.
Methyl ethyl ketoxime	000096297	<0.5	Not available.	Not available.
Trimethyl Benzene	000095636	<0.3	TWA: 25 CEIL: 35 (ppm) TWA: 125 CEIL: 170 (mg/m³)	Not available.
Ethylbenzene	000100414	<2.0	TWA: 100 CEIL: 125 (ppm)	ORAL (LD50): Acute: 3500
			TWA: 435 CEIL: 545 (mg/m³)	mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].

Section 3. Hazard	<i>Is Identification</i>
Emergency Overview	May cause eye irritation. May cause skin irritation. May be harmful or fatal if swallowed.
Potential Acute Health Effects	Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).
Potential Chronic Health Effects	Non-sensitizer for skin. Non-permeator by skin. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
Target Organs:	Not available.
Routes of Entry	Eye contact. Inhalation. Ingestion.
Medical Conditions Aggravated by Overexposure:	There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.
Signs and Symptoms of Overexposure:	Not available.

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Section 4. First A	MANUAL M	
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for a least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.	
Skin Contact	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cove the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.	
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream Seek medical attention.	
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.	
Hazardous Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.	
Ingestion	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.	
Hazardous Ingestion	No additional information.	

Section 5. Fire and Explosion Data		
Flammability of the Product	Combustible.	
Auto-Ignition Temperature	The lowest known value is 218°C (424.4°F) (Mineral Spirits).	
Flash Points	CLOSED CUP: 40.5°C (104.9°F). (Setaflash.).	
Flammable Limits	The greatest known range is LOWER: 1.1% UPPER: 6% (Mineral Spirits)	
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2)	
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks.	
Explosion Hazards in Presence of Various Substances	No danger known.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.	
Special Remarks on Fire Hazards	Combustible.	
Special Remarks on Explosion Hazards	No additional remark.	

Section 6. Accidental Release Measures		
Small Spill	Mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.	
Large Spill	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

Section 7. H	landling and Storage
Handling	After handling, always wash hands thoroughly with soap and water.
Storage	Keep container dry. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8. Exposur	e Controls/	Personal Pr	otection
,	vapors below t	their respective	other engineering controls to keep the airborne concentrations of threshold limit value. Ensure that eyewash stations and safety rk-station location.
	Lab coat. Vapor respirator. Be sure to use a MSHA approved respirator or equivalent. Gloves (impervious). Safety glasses.		
of a Large Spill	apparatus shou	uld be used to av	Papor respirator. Boots. Gloves. A self contained breathing woid inhalation of the product. Suggested protective clothing might stallst BEFORE handling this product.
Chemical Name or Product Name		CAS#	Exposure Limits
Mineral Spirits Light aromatic solvent naphtha Xylene	(petroleum)	064742478 064742956 001330207	TWA: 100 (ppm) TWA: 50 (ppm) from OSHA TWA: 100 CEIL: 150 (ppm) TWA: 435 CEIL: 655 (mg/m³)
Primary amyl alcohol Methyl ethyl ketoxime Trimethyl Benzene		000071410 000096297 000095636	Not available. Not available. TWA: 25 CEIL: 35 (ppm) TWA: 125 CEIL: 170 (mg/m³)
Ethylbenzene		000100414	TWA: 100 CEIL: 125 (ppm) TWA: 435 CEIL: 545 (mg/m³)

Physical state and appearance	Liquid.	Odor	Hydrocarbon.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Light straw.
Boiling/Condensation Point	Weighted average: 159.44°C (319°I	F)	
Melting/Sublimation Point	Not available.		
Critical Temperature	Not available.	· · · · · · · · · · · · · · · · · · ·	
Specific Gravity	0.92 (Water = 1)		
Vapor Pressure	Weighted average: 2.45 mm of Hg ((@ 20°C)	
Vapor Density	The highest known value is 4.9 (Air	= 1) (Mineral Sp	irits).
Volatility	<60% (v/v).		
Odor Threshold	Not available.	· · · · · · · · · · · · · · · · · · ·	
Evaporation rate	Not available.		
Viscosity	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Soluble in mineral spirits.		
Physical Chemical Comments	Not available.		

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Section 10. Stability and Reactivity Data		
Chemical Stability	The product is stable.	
Conditions of Instability	No additional remark.	
Incompatibility with various substances	None known.	
Hazardous Decomposition Products	Not available.	
Hazardous Polymerization	No.	

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on other Toxic Effects on Humans	No additional remark.

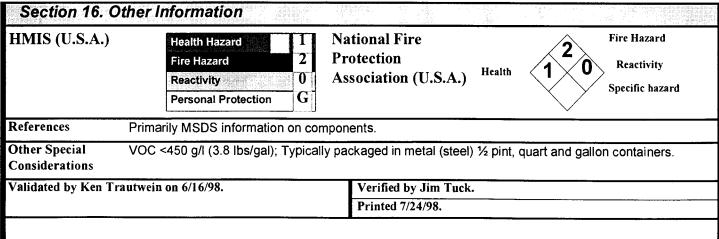
Section 12. Ecolo	gical Information
Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradatio	Possibly hazardous short term degradation products are not likely.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradatio	No additional remark. n

Section 13, Disp	oosal Considerations		
Waste information	Use product or recycle. Consult local or regional authorities.		
Waste stream	Consult local or regional authorities.		

DOT Classification	DOT CLASS 3: Combustible liquid with a flash point greater than 37.8°C (100°F). Not regulated for highway travel; Considered flammable for air or ocean transport. UN1263			
Proper Shipping Name	Paint			
DOT Identification Number	Not regulated for highway travel; Considered flammable for air or ocean transport. UN1263			
Packing Group	II			
Maritime transportation	Not available.			

Varathane® Liquid Plastic Exterior Wood Finish®	
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	No additional remark.
TDG Classification	TDG CLASS 3: Flammable liquid.
ADR Classification	ADR CLASS: Flammable liquid D. Non-toxic and non-corrosive liquid with a flash point between 21°C (70°F) and 100°C (212°F).
IMDG Classification	IMDG CLASS 3: Flammable liquid.
IATA Classification	IATA CLASS 3: Flammable liquid.

Section 15. Regu	latory Informatio	on .			
Federal and State Regulations	SARA 302/304/311/312 extremely hazardous substances:				
	Product(s): (Benzo	otriazol-(2h) yl-2)-2 di-tert-pentyl-4,6 phenol			
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification:				
	3-iodo-2-propynyl butyl carbamate;				
	SARA 313 toxic chemical notification and release reporting:				
	Xylene; Diethylene Glycol Monomethyl Ether; Dipropylene glycol monomethyl ether; Glycol Ether; 3-iodo-2-propynyl butyl carbamate; Ethylbenzene;				
	CERCLA hazardous substances:				
	Dipropylene glycol monomethyl ether; Glycol Ether; 3-iodo-2-propynyl butyl carbamate;				
Other Classifications	WHMIS (Canada)	(100°F) and 93.3°C (200°F).			
		WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).			
	Canadian Regulatory Lists	CEPA DSL:			
	Regulatory Lists	Product(s): Mineral Spirits, Xylene			
	DSCL (EEC)	R11- Highly flammable.			
	International Regulatory Lists	No products were found.			



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Wood Finish®	
Emergency phone:	
800-255-3924	

800-635-3286 Notice to Reader

For Information Call:

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